Futaba

SAIL CONTROL WINCH SERVO

S5801

High Torque
High Speed
Metal Gear

INSTRUCTION MANUAL

1M23N00805

Thank you for purchasing S5801 Sail Control Servo.
Please read this instruction manual and the digital proportional R/C set instruction manual before using the S5801. After reading this manual, keep close at hand so that you can refer to it immediately if you should not understand the product.

The following defines the symbols used in this manual.

⚠CAUTION	Indicates a procedure that may result in serious injury to the user or other persons, or physical damage, if ignored and not performed properly.

RATINGS

-Torque: 9.8kg-cm (7.2V)
-Speed: 0.5sec/360degree (7.2V)
-Number of rotations: 2 to 6 (adjustment range)
-Drum diameter: 30mm
-Dimensions: 46x23x44mm (excluding drum and mounting flange)
-Weight: 83g
-Power requirement: 6.0V or 7.2V nicd battery (5 or 6 cells)
-Regulator output: 6.0V/1.5A (max)

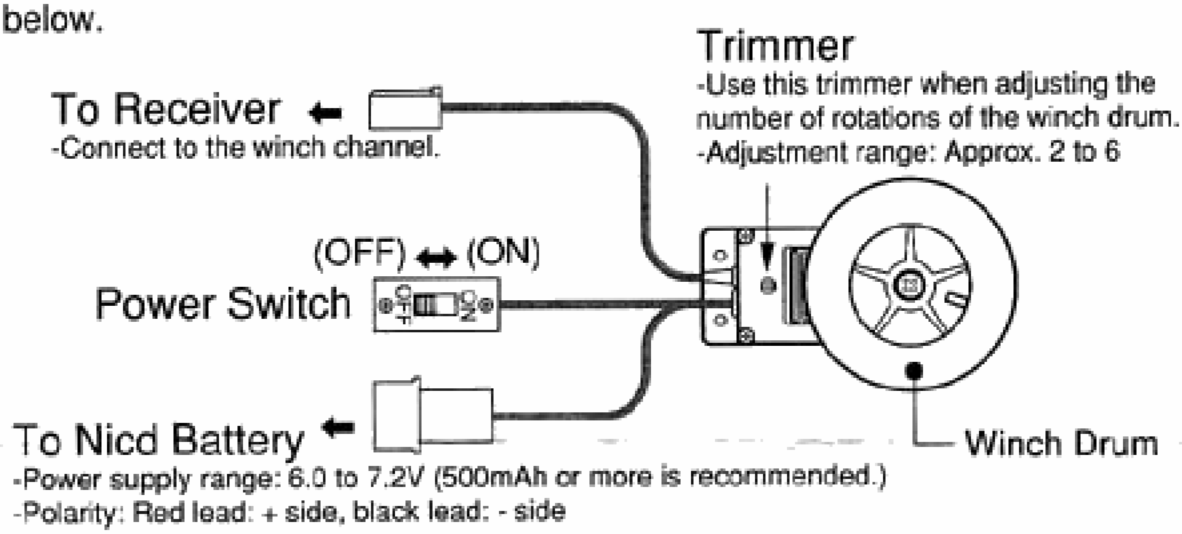
CONNECTIONS

⚠CAUTION

-Do not connect the battery to the receiver.
The regulator inside the S5801 servo supplies power to the receiver. Connecting the battery to the receiver will damage the servo.

-When changing the connections, be sure that the polarity is correct.
If the polarity is incorrect, the servo will be damaged.

Connect the servo connectors to the receiver and nicd battery as shown below.

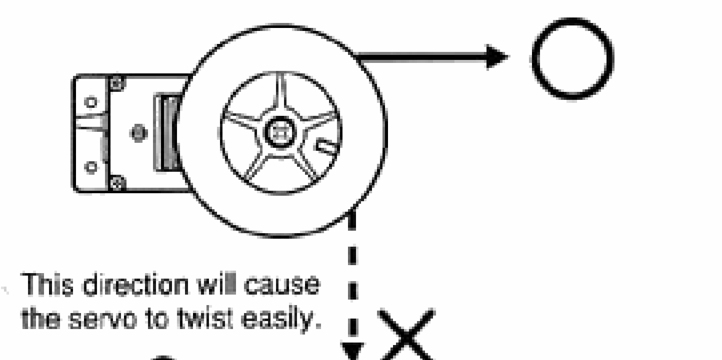


MOUNTING THE SERVO

⚠CAUTION

-Use 2.6mm dia. x 5mm or smaller screws to mount the drum.
Long screws will damage the servo.

[Servo Mounting Direction]
-Mount the servo so that the sail rope (sheet) lets out in the direction of the solid line in the figure.



WATERPROOFING

Waterproof the S5801 as the following measures.

-Do not install the servo to the bottom of the boat so that it will not be flooded with water.
-After adjustment seal the trimmer with tape.

Also waterproof the receiver, battery, and connectors with a plastic bag.

ADJUSTMENT

⚠CAUTION

-When making adjustments, do not apply unreasonable force to the trimmer. The trimmer may be damaged.

Adjust the trimmer with a 2.5mm diameter or smaller flat blade screwdriver. Turning the trimmer clockwise increases the number of rotations.

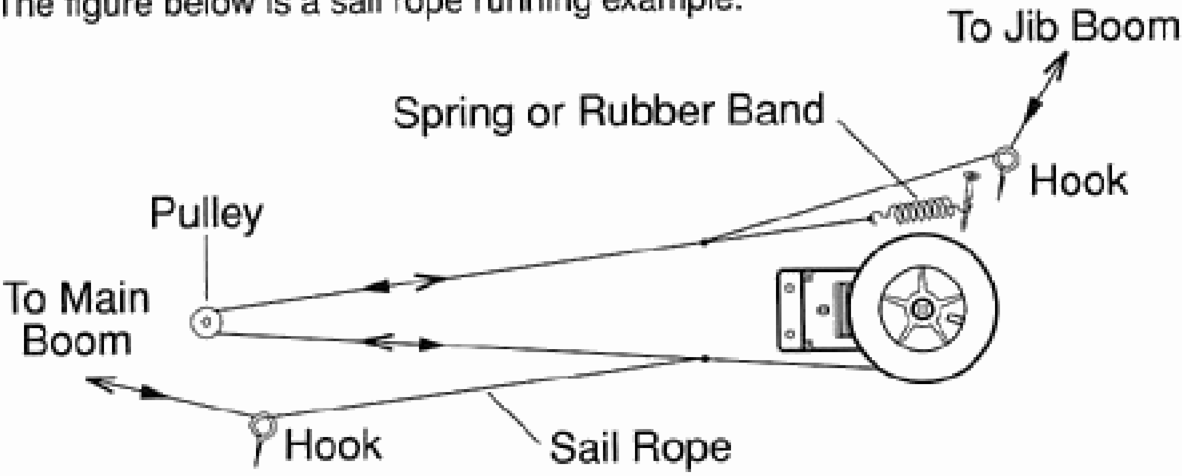
[Adjustmemt Points]
The number of rotations can be adjusted from about 2 to 6. (It depends on the transmitter steering angle setting.) Using a small number of rotations to speed-up movement of the sail will apply a load to the servo, increase the battery current drain, and shorten the life of the servo. Connect the linkage so that it is as large as possible.

(Example)
When the trimmer is set to the 80 to 90% position and the transmitter sail control stick is set to the maximum position when connecting the linkage, the sail rope will be hooked so that the main sail and jib go to the running position. This allows fine adjustment of the sail angle later.



SAIL ROPE RUNNING EXAMPLE

The figure below is a sail rope running example.



To prevent an increase in the current drain and trouble due to the application of excessive force to the servo, take the following measures.

- -Install the hook, etc. so that sail rope is as straight as possible in the tension direction.
- -Use a kicking strap (boom vang) at the booms so that the force that pulls the boom down is not applied directly to the sail rope.
- -When there is slack in the sail rope, take suitable measures so that the rope will not get caught on the winch drum or other objects.

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